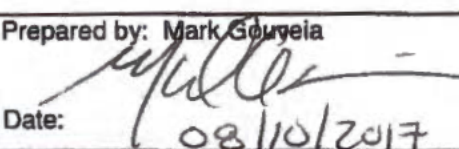
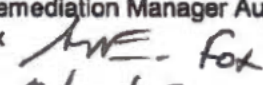


FIELD CHANGE NOTICE		FCN 327
Client/Project: U.S. Army Corps of Engineers New England District Contract DACW33-03-D-0006 New Bedford Harbor Superfund Site	Job Code(s): 35BG0708 WBS codes: B039105F, B039105M, B039105W	Page 1 of 1
Proposed Activity In-Scope: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Order of Magnitude Cost Estimate to Implement Solution: \$180,167.39	
Task/Subtask(s) Affected:	Potential Schedule Impact: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
<p>Activity/Change Description: The purpose of this FCN is to provide the estimated Jacobs costs associated with the Aerovox Cap Design. As presented in the attached cost summary, these include the following activities using a combination of existing data, and data collected during the 2017 Jacobs field activities to:</p> <ol style="list-style-type: none"> 1) characterize physical properties of harbor; 2) create a three dimensional depiction of the NPL; 3) use the coordinates input data provided by AVX(Brown and Caldwell) in pdf format, convert pdf to usable format, verify AVX coordinates, define layer characteristics, add coordinates and layers for Harbor sediment samples (historic and current), determine boundary conditions, determine hydraulic conductivity, storage and porosity values, build a groundwater model to simulate groundwater flow from the former AVX site to the adjacent harbor sediments, calibrate model, perform forward and reverse particle tracks; 4) use the existing and 2017 field data to simulate the potential transport of contaminants (VOCs and PCBs) in groundwater; 5) the preparation of the field sampling plan outlining the 2017 sampling and analysis activities; 6) the preparation of an interim cap design and a construction work plan (65% and 90%). 		
<p>Recommendation(s): The NAE should authorize Jacobs to use \$180,167.39 of current funding from Task Order 7 (7/14/08), and Mod 1 (09/28/08), Mod 2 (12/16/08), Mod 3 (5/04/09), Mod 4 (5/28/09), Mod 5 (12/22/09), Mod 6 (5/13/10), Mod 7 (06/09/10), Mod 8 (11/05/10), Mod 9 (03/07/11), Mod 10 (06/02/11), Mod 11 (08/31/11), Mod 12 (12/21/11), Mod 13 (02/16/12), Mod 16, (5/31/12), Mod 17 (07/12/12), Mod 18 (8/27/12), Mod 20 (3/29/13), and Mod 22 (5/20/13). The current T07 variance as of the Jacobs invoice for the month ending 26 May 2017 is \$643,968.75. The new variance, with the addition of FCN #327 (\$190,700.19 excluding fee) is \$463,801.36.</p> <p>In a November 26, 2013 letter to Ellen Iorio (NAE), Jacobs requested a Period of Performance (POP) extension for the following Task Order 7 Tasks: 4, 5, 6, and 23. In a December 13, 2013 Memorandum from Steve Fox (Jacobs) and Paul L'Heureux (NAE) to Ellen Iorio, a Rough Order of Magnitude for the completion of Plans and Specs, Task 6 of Mod 22, was provided, which included support of Battelle LHCC sampling activities. On December 20, 2013, the NAE awarded Jacobs Mod 23 to Task Order 7, which was a POP extension to December 31, 2014 "to complete work." On December 19, 2014, the NAE awarded Jacobs Mod 24 to Task Order 7, which was a POP extension to December 19, 2015 "due to delays." Mod 25, awarded on December 16, 2015, extended the POP to June 30, 2016. Mod 26, awarded on June 22, 2016, extended the POP to January 17, 2017, and Mod 28, awarded on January 13, 2017, extended the POP to June 30, 2017, Mod 29, awarded on June 16, 2017 extended the POP to December 31, 2017.</p>		
APPROVAL REQUESTED BY		
Prepared by: Mark Gougeia 	Project/Remediation Manager Authorization: Steve Fox 	
Date: 08/10/2017	Date: 8/10/17	
Design Change/Engineering Review Required? (if yes, authorization required prior to implementation) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Technical Lead Authorization: Date:	
<p style="text-align: center;">USACE APPROVAL</p> <p>(note: approval does not consent to funding, consent to execution of FCN only)</p> <p>USACE Consent :</p> <div style="display: flex; justify-content: space-between;"> <div> <p>_____ Name</p> <p>_____ Signature</p> </div> <div> <p>_____ Title</p> <p>_____ Date</p> </div> </div> <p>USACE Comments:</p>		Distribution:
Contract Modification Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

EMPLOYEE	TITLE	TERC LOADED RATE	ESTIMATED HOURS	ESTIMATED TOTAL \$	RUNNING TOTAL
1. PHYSICAL CHARACTERIZATION OF SURFACE:					
(b) (4)					
TOTAL ESTIMATED PHYSICAL CHARACTERIZATION:			(b) (4)	\$ 9,587.20	\$ 9,587.20
2. 3D DEPICTION OF NAPL					
(b) (4)					
TOTAL ESTIMATED 3D DEPICTION OF NAPL				\$ 1,963.50	\$ 11,550.70
3. BUILD GROUNDWATER MODEL					
(b) (4)					
TOTAL BUILD GROUNDWATER MODEL				\$ 54,926.60	\$ 66,477.30
4. FLUX OF CONTAMINANTS					
BUILD GROUNDWATER TRANSPORT MODEL					
(b) (4)					
TOTAL FLUX OF CONTAMINANTS				\$ 12,795.40	\$ 79,272.70
5. FIELD SAMPLING PLAN					
(b) (4)					
TOTAL FIELD SAMPLING PLAN				\$ 26,972.76	\$ 106,245.46
6. DESIGN WORK PLAN					
DESIGN CONSTRUCTION WORK PLAN (65% and 90%)					
(b) (4)					
TOTAL DESIGN DOCUMENTS				\$ 72,998.36	\$ 179,243.82
TOTAL AEROVOX COSTS					\$ 179,243.82
AEROVOX FCN ADMINISTRATIVE COSTS:					
(b) (4)					
TOTAL ADMINISTRATIVE COSTS				\$ 923.57	\$ 923.57

TOTAL FCN WITHOUT FEE: \$ 180,167.39 \$ 180,167.39